

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Stephen Robert Bloom, Mohammad Ali Ghatei, Caroline Jane Small, Catherine Louise Dakin

Serial No.:

10/541,526

Art Unit:

1646

Filed:

July 7, 2005

Examiner:

Not Yet Assigned

For:

MODIFICATION OF FEEDING BEHAVIOUR

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §1.56 and 37 C.F.R. §1.97, Applicants submit an Information Disclosure Statement, including (3) pages of Form PTO-1449 and copies of document (28) cited therein.

Pursuant to the waiver in the notice entitled "Information Disclosure Statements May Be Filed Without Copies of U.S. Patents and Published Applications in Patent Applications Filed After June 30, 2003" published on August 5, 2003 in 1273 OG 55, a copy of cited U.S Patents and Published Applications are not enclosed. Copies will be provided upon request, however.

This Information Disclosure Statement is being filed under 37 C.F.R. § 1.97(b) prior to a first Office Action on the merits. It is believed that no fee is required with this submission. However, should a fee be required, the Commissioner is hereby authorized to charge any required fees to Deposit Account No. 50-3129.

U.S.S.N.: 10/541,526 Filed: July, 7 2005 INFORMATION DISCLOSURE STATEMENT

U.S. Patents

<u>Number</u>	Issue Date	<u>Patentee</u>	Class/Subclass
5,026,685	06-25-1991	Boublik, et al.	514/13
5,574,010	11-12-1996	McFadden	514/12
5,604,203	02-18-1997	Balasubramaniam	514/12
5,696,093	12-09-1997	Tseng, et al.	514/14
6,046,167	04-04-2000	Balasubramaniam	514/13
6,191,102	02-20-2001	DiMarchi, et al.	514/2
6,608,098	08-19-2003	Nagase, et al.	514/411
6,620,910	09-16-2003	Calas, et al.	530/324

Foreign Documents

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<u>Number</u>	Publication Date	<u>Patentee</u>	Country		
0 619 332	10-12-1994	Kuraray Co., Ltd.	EP		
0 795 562	09-17-1997	Kyowa Hakko	EP		
		Kogyo Co., Ltd.			
WO 93/19175	09-30-1993	Thorens Bernard	PCT		
WO 99/43707	09-02-1999	Novo Nordisk A/S	PCT		
WO 00/42026	07-20-2000	Novonordisk AS and	PCT		
		Agouron Pharma			
WO 00/59887	10-12-2000	Neurogen Corporation	PCT		
WO 00/78333	12-28-2000	Eli Lilly & Co	PCT		
WO 01/04156	01-18-2001	Zealand Pharmaceuticals	PCT		
		A/S			
WO 01/14368	03-01-2001	Viropharma Incorporated	PCT		
WO 01/35988	05-25-2001	Novo Nordisk A/S	PCT		
WO 01/66135	09-13-2001	Novo Nordisk A/S	PCT		
WO 01/89554	11-29-2001	Bionebraska, Inc.	PCT		
WO 02/03978	01-17-02	Metabasis Therapeutics, Inc	PCT		
		& Sankyo Company, Ltd			
WO 02/66479	08-29-2002	Banyu Pharmaceutical	PCT		
		Co., Ltd			
WO 02/67918	09-06-2002	Banyu Pharmaceutical	PCT		
		Co., Ltd			
WO 03/022304	03-20-2003	IC Innovations	PCT		

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July, 7 2005

INFORMATION DISCLOSURE STATEMENT

Publications

ADRIAN, et al., "Effect of peptide YY on gastric, pancreatic, and biliary function in humans," Gastroenterology, 89:494-499 (1985).

CUMMINGS, et al., "A preprandial rise in plasma ghrelin levels suggests a role in meal initiation in humans", *Diabetes*, 50:1714-1719 (2001).

DAKIN, et al., "Repeated ICV administration of oxyntomodulin causes a greater reduction in body weight gain than in pair-fed rats", Am J Physiol Endocrinol Metab., 283(6):E1173-7 (2002).

DAKIN, et al, "Oxyntomodulin inhibits food intake in the rat", *Endocrinilogy*, 142:4244-4250 (2001).

ENG, et al., "Isolation and characterization of exendin-4, an exendin-3 analogue, from Heloderma suspectum venom. Further evidence for an exendin receptor on dispersed acini from guinea pig pancreas", *J Biol Chem*, 267:7402-7405 (1992).

ENGLISH, "Food fails to suppress ghrelin levels in obese humans", *J Clin Endocrinol Metab*, 87:2984-87 (2002).

GHATEI, et al., "Molecular forms of human enteroglucagon in tissue and plasma: plasma responses to nutrient stimuli in health and in disorders of the upper gastrointestinal tract", *J Clin Endocrinol Metab*, 57:488-495 (1983).

KREYMANN, "Glucagon-like peptide-1 7-36: a physiological incretin in man", *Lancet*, 2:1300-1304 (1987).

TATEMOTO, "Isolation and characterization of peptide YY (PYY), a candidate gut hormone that inhibits pancreatic exocrine secretion", *Proc. Natl. Acad. Sci.*, 79:2514-8 (1982).

UESAKA, et al., "Glucagon-like peptide isolated from the eel intestine: effects on atrial beating", *J Exp Biol.*, 204(Pt 17):3019-26 (2001).

WREN, et al., "Ghrelin enhances appetite and increases food intake in humans", *J Clin Endocrinol Metab*, 86:5992-5 (2001).

WYNNE, et al., "Subcutaneous oxyntomodulin reduces body weight in overweight and obese subjects: a double-blind, randomized, controlled trial", *Diabetes*, 54(8):2390-5 (2005).

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INFORMATION DISCLOSURE STATEMENT

Remarks

This statement should not be interpreted as a representation that an exhaustive search has been conducted or that no better art exists. Moreover, Applicants invite the Examiner to make an independent evaluation of the cited art to determine its relevance to the subject matter of the present application. Applicants are of the opinion that their claims patentably distinguish over the art referred to herein, either alone or in combination.

Respectfully submitted,

Lina D. Monheit

Rivka D. Monheit

Reg. No. 48,731

Dated: November 4, 2005

PABST PATENT GROUP LLP 400 Colony Square, Suite 1200 1201 Peachtree Street Atlanta, Georgia 30361 (404) 879-2151 (Telephone) (404) 879-2160 (Fax)

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NOV 0 8 2005 Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE uction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number bstitute for form 1449A/PTO Complete if Known **Application Number** 10/541,526 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) Filing Date July 7, 2005 First Named Inventor Stephen Robert Bloom Group Art Unit 1646 **Examiner Name** Attorney Docket Number AI 9250US of 3 Sheet

U.S. PATENT DOCUMENTS				
Cite No. ¹		of Cited Document	Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	5,026,685	Boublik, et al.	06-25-1991	
	5,574,010	McFadden	11-12-1996	
	5,604,203	Balasubramaniam	02-18-1997	
	5,696,093	Tseng, et al.	12-09-1997	
	6,046,167	Balasubramaniam	04-04-2000	
	6,191,102	DiMarchi, et al.	02-20-2001	-
	6,608,098	Nagase, et al.	08-19-2003	
	6,620,910	Calas, et al.	09-16-2003	
	 			
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		No.1 Number Kind Coc (if known of know	Cite No.¹ US Patent Document Name of Patentee or Applicant of Cited Document Number Kind Code² (if known) S,026,685 Boublik, et al. 5,574,010 McFadden 5,604,203 Balasubramaniam 5,696,093 Tseng, et al. 6,046,167 Balasubramaniam 6,191,102 DiMarchi, et al. 6,608,098 Nagase, et al.	Cite No.¹ US Patent Document Name of Patentee or Applicant of Cited Document Date of Cited Document MM-DD-YYYY Number Kind Code Z (if known) 8 Boublik, et al. 06-25-1991 5,026,685 Boublik, et al. 11-12-1996 5,574,010 McFadden 11-12-1996 5,604,203 Balasubramaniam 02-18-1997 5,696,093 Tseng, et al. 12-09-1997 6,046,167 Balasubramaniam 04-04-2000 6,191,102 DiMarchi, et al. 02-20-2001 6,608,098 Nagase, et al. 08-19-2003

				F	OREIGN PATENT DOCUMENT	S		
Examiner Initials*						Date of Publication of Cited Document MM- DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office.3	Number ⁴	Kind Code ⁵ (if known)		1		
			0 619 332		Kuraray Co., Ltd.	10-12-1994		
-			0 795 562		Kyowa Hakko Kogyo Co., Ltd.	09-17-1997		
	<u> </u>	†	WO 93/19175		Thorens Bernard	09-30-1993		
			WO 99/43707		Novo Nordisk A/S	09-02-1999		
			WO 00/42026		Novonordisk AS and Agouron Pharma	07-20-2000		
			WO 00/59887		Neurogen Corporation	10-12-2000		

Examiner's	Date Considered	
Signature		

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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.

¹ Unique citation designation number ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant to place a check mark here if English language Translation is attached.

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Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number fute for form 1449A/PTO Complete if Known 10/541,526 INFORMATION DISCLOSURE Application Number STATEMENT BY APPLICANT (use as many sheets as necessary) July 7, 2005 Filing Date Stephen Robert Bloom First Named Inventor 1646 Group Art Unit **Examiner Name Attorney Docket Number** AI 9250US 3 Sheet 2 of

_	FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹		Foreign Patent Docu		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM- DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office.3	Number⁴	Kind Code ⁵ (if known)		·		
			WO 00/78333		Eli Lilly & Co.	12-28-2000		
			WO 01/04156		Zealand Pharmaceuticals	01-18-2001		
			WO 01/14368		Viropharma Incorporated	03-01-2001		
			WO 01/35988		Novo Nordisk A/S	05-25-2001		
			WO 01/66135	!	Novo Nordisk A/S	09-13-2001		
			WO 01/89554		Bionebraska, Inc. and & Sankyo Company, Ltd	11-29-2001		
			WO 02/03978		Metabasis Therapeutics, Inc	01-17-02		
			WO 02/66479		Banyu Pharmaceutical Co., Ltd	08-29-2002		
			WO 02/67918		Banyu Pharmaceutical Co., Ltd	09-06-2002		
			WO 03/022304		IC Innovations	03-20-2003		
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	OTHER ART - NON PATENT LITERATURE DOCUMENTS
Examiner's Signature	Date Considered

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¹ Unique citation designation number ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant to place a check mark here if English language Translation is attached.

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der the Paperwork deduction Act of 1995, no persons are required to respond to a collection of information un Sobstitute for form 1449A/PTO	Co	mplete if Known
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application Number	10/541,526
(use as many sheets as necessary)	Filing Date	July 7. 2005
	First Named Inventor	Stephen Robert Bloom
	Group Art Unit	1646

Examiner Name

Attorney Docket Number

Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T²
		ADRIAN, et al., "Effect of peptide YY on gastric, pancreatic, and biliary function in humans," Gastroenterology, 89:494-499 (1985).	
		CUMMINGS, et al., "A preprandial rise in plasma ghrelin levels suggests a role in meal initiation in humans", <i>Diabetes</i> , 50:1714- 1719 (2001).	
		DAKIN, et al., "Repeated ICV administration of oxyntomodulin causes a greater reduction in body weight gain than in pair-fed rats", Am J Physiol Endocrinol Metab., 283(6):E1173-7 (2002).	
		DAKIN, et al, "Oxyntomodulin inhibits food intake in the rat", <i>Endocrinilogy</i> , 142:4244-4250 (2001).	
		ENG, et al., "Isolation and characterization of exendin-4, an exendin-3 analogue, from Heloderma suspectum venom. Further evidence for an exendin receptor on dispersed acini from guinea pig pancreas", <i>J Biol Chem</i> , 267:7402-7405 (1992).	
		ENGLISH, "Food fails to suppress ghrelin levels in obese humans", <i>J Clin Endocrinol Metab</i> , 87:2984-87 (2002).	
		GHATEI, et al., "Molecular forms of human enteroglucagon in tissue and plasma: plasma responses to nutrient stimuli in health and in disorders of the upper gastrointestinal tract", <i>J Clin Endocrinol Metab</i> , 57:488-495 (1983).	
		KREYMANN, "Glucagon-like peptide-1 7-36: a physiological incretin in man", Lancet, 2:1300-1304 (1987).	
:		TATEMOTO, "Isolation and characterization of peptide YY (PYY), a candidate gut hormone that inhibits pancreatic exocrine secretion", <i>Proc. Natl. Acad. Sci.</i> , 79:2514-8 (1982).	
:		UESAKA, et al., "Glucagon-like peptide isolated from the eel intestine: effects on atrial beating", <i>J Exp Biol.</i> , 204(Pt 17):3019-26 (2001).	
		WREN, et al., "Ghrelin enhances appetite and increases food intake in humans", <i>J Clin Endocrinol Metab</i> , 86:5992-5 (2001).	
		WYNNE, et al., "Subcutaneous oxyntomodulin reduces body weight in overweight and obese subjects: a double-blind, randomized, controlled trial", <i>Diabetes</i> , 54(8):2390-5 (2005).	
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U.S. Patent and Trademark Office; U.S. DEPARTMENT Of Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB Application Number 10/541,526 FIRANSMITTAL Filling Date July 7, 2005 First Named Inventor Stephen Robert Bloom Art Unit 1646 Examiner Name	control number.
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(to be used for all correspondence after initial filing)	
Attorney Docket Number AI 9250 US	
Total Number of Pages in This Submission At 9230 03	
ENCLOSURES (Check all that apply)	
Fee Transmittal Form Drawing(s) After Allowance Communication to of Appeals and Interference Drawing(s) Appeals and Interference Drawing(s) Dra	o Board
Amendment/Reply Petition Petition Petition to Convert to a Provisional Application Proprietary Information	
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Landscape Table on CD	
Certified Copy of Priority Document(s) Remarks	
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Incomplete Application Reply to Missing Parts under 37 CFR 1.52 or 1.53	
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Firm Name	
Pabst Patent Group LLP	
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Effective on 12/08/2004.				Complete if Known				
Bes pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).			_ ′	Application Num	ber	10/541,526		
FEE TRANSMITTAL			L [Filing Date		July 7, 2005		
For FY 2005				First Named Inve	entor	Stephen Robert Bloom		
				Examiner Name				
Applicant claims small entity status. See 37 CFR 1.27			— [Art Unit		1646		
TOTAL AMOUNT OF PAYMENT (\$)			Attorney Docket	No.	AI 9250 US			
METHOD OF PAYMENT (check all that apply)								
Check Credit Card Money Order None Other (please identify): Deposit Account Deposit Account Number: 50-3129 Deposit Account Name: Pabst Patent Group LLP								
For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)								
Charge fee(s) indicated below Charge fee(s) indicated below Charge fee(s) indicated below								
Charge any additional fee(s) or underpayments of fee(s) Under 37 CFR 1.16 and 1.17 WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.								
FEE CALCULATION								
BASIC FILING, SEARCH, AND EXAMINATION FEES FILING FEES SEARCH FEES EXAMINATION FEES Small Entity Small Entity Small Entity Small Entity								
Application Type	Fee (\$)		ee (\$)	Fee (\$)	Fee (S	Fee (\$)	Fees Paid (\$)	
Utility	300	150	500	250	200	100		
Design	200	100	100	50	130	65		
Plant	200	100	300	150	160	80		
Reissue	300	150	500	250	600	300		
Provisional	200	100	0	0	0	0		
2. EXCESS CLAIM FEES Fee Description Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent Each independent claims Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent Each independent claims Each claim over 3 or, for Reissues, each independent claim more than in the original patent Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent Each ind								
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3 3 or HP =	Extra Claims 0	<u>Fee (\$)</u> _ x =	Fee Pa	<u>ld (\$)</u>				
HP = highest number of independent claims paid for, if greater than 3								
3. APPLICATION SIZE FEE If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). Total Sheets Extra Sheets Number of each additional 50 or fraction thereof Fee (\$) Fee Paid (\$) (round up to a whole number) x								
4. OTHER FEE(S) Non-English Specification, \$130 fee (no small entity discount) Other:								
SUBMITTED BY								

SUBMITTED BY			
Signature	Livha D. Monheit	Registration No. (Attorney/Agent) 48,731	Telephone (404) 879-2152
Name (Print/Type)	Rivka D. Monheit		Date November 4, 2005

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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